

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (previously presented) A method for address management of mobile nodes, said method comprising the steps of:

receiving a registration request message from a first mobile node; and

assigning a first range of globally unique port numbers to said first mobile node.

2. (previously presented) The method of claim 1, further comprising the step of:

transmitting said first range of globally unique port numbers to said first mobile node.

3. (previously presented) The method of claim 1, further comprising the steps of:

assigning a network address to said first mobile node; and

transmitting said network address and said first range of globally unique port numbers to said first mobile node.

4. (original) The method of claim 3, wherein said network address is an Internet Protocol (IP) address.

5. (original) The method of claim 3, wherein said network address can be shared with a second mobile node.

6. (canceled)

7. (previously presented) The method of claim 5, further comprising the step of:
assigning a second range of globally unique port numbers to said second mobile node,
wherein said first and second ranges are disjoint.

8. (previously presented) The method of claim 1, wherein said first range of globally
unique port numbers is defined by a low port number and a high port number, said method
further comprising the step of:

transmitting a registration reply message to said first mobile node, said registration reply
message including a port range extension, said port range extension including said low port
number and said high port number.

9. (original) The method of claim 1, wherein said registration request message includes a
care-of address for said first mobile node.

10. (previously presented) The method of claim 9, further comprising the step of:
associating said care-of address with said first range of globally unique port numbers.

11. (previously presented) The method of claim 9, further comprising the steps of:
assigning a network address to said first mobile node; and

associating said care-of address with said network address and said first range of globally unique port numbers.

12. (previously presented) The method of claim 11, further comprising the steps of:
receiving data packets destined for said network address and a port number in said first range of globally unique port numbers; and
forwarding said data packets to said care-of address.

13. (previously presented) A system for address management of mobile nodes, said mobile nodes including at least a first mobile and a second mobile node, said system comprising:

a home agent, said home agent transmitting registration reply messages in response to valid registration request messages; and

a home agent database accessible by said home agent, said home agent database containing at least a first data record and a second data record, said first data record identifying a network address and a first set of one or more globally unique port numbers for said first mobile node, said second data record identifying said network address and a second set of one or more globally unique port numbers for said second mobile node, wherein said first and second sets are disjoint.

14. (canceled)

15. (previously presented) The system of claim 13, wherein said first data record includes a care-of address for said first mobile node, said care-of address being different from said network address.

16. (previously presented) The system of claim 13, wherein said network address is an Internet Protocol (IP) address.

17. (previously presented) The system of claim 15, further comprising:
a foreign agent, coupled to said home agent via an intermediate network; and
a foreign agent database accessible by said foreign agent, said foreign agent database containing a visitor data record for said first mobile node, said visitor data record including said network address and said first set of one or more globally unique port numbers for said first mobile node.

18. (previously presented) The system of claim 17, wherein said visitor data record includes a local address of said first mobile station.

19. (currently amended) The system of claim 17, wherein said care-of address ~~station~~ is an Internet Protocol (IP) address.

20. (currently amended) The system of claim 19, wherein said ~~first~~ care-of address is an external IP address associated with said foreign agent.

21. (previously presented) The system of claim 17, wherein said visitor data record includes an IP address of said home agent.